

UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Caroline Heiligenmann et al
Application Number: Unassigned
Filing Date: Concurrently Herewith
Group Art Unit:
Examiner:
Title: DISHWASHER USING OZONE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.98, I am submitting a completed "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" (*Form PTO/SB/08A*) with patents and/or publications as delineated therein attached.

DE 32 32 057 discloses a machine for cleaning washing, crockery or the like, having a reservoir for a cleaning agent, a programme control unit which controls the cleaning process, and an ozone generator to whose output an ozone feed line which leads into the generator is connected in order to ozonise the cleaning agent.

EP 0 808 894 discloses a method for cleaning utensils or dishes involves spray pre-washing, followed by the main wash and final rinsing. the novelty is that the following are separately dosed into the pre-wash solution : (i) an alkali component and (ii) a complex-former. Also claimed is a kit containing (i) and (ii).

JP 11-137882 discloses an injecting port 42 is connected to the vicinity of the bottom part of an outer tub 5, and air containing ozone is spouted into water. An air supply valve 41 is opened in a condition actuating an ozone generator 37 and simultaneously an air pump 35. By this series of operation, a part of oxygen in the sir sucked by the suction port 40 is excited

and changed to ozone by electric energy in the ozone generator 37. The air containing ozone is spouted in a bubble state into washing water filled in the outer tub 5. The ozone in the air is dissolved in water and oxidize and decompose organic substances in water to change the organic substances to lower molecular weight substances by the oxidation power. Thus COD and BOD in washing water can be reduced.

DE 195 44 392 discloses that in the washing mode as the first process, water is sprayed to the dishes and other tableware 4 set in a washing chamber 2 so that the contaminant is removed. In the disinfection mode as the next stage, ozone gas and water are brought into contact with each other in a gas-liquid mixing part 51 and scattered in the chamber through ozone atomizer nozzles 63. The in the drying mode, a heater 8 and blower fan are turned on so that drying by heating is conducted. A control part 50 controls an ozone generator 40, circulation pump 6, heater 8, and dryer fan on the basis of the weight data about apparatus 4 measured by a weight sensor(s), and thereby the ozone generation, washing, scatter of atomized ozone, and the drying by heating are regulated.

JP 10-14844 discloses that in the washing mode as the first process, water is sprayed to the dishes and other tableware 4 set in a washing chamber 2 so that the contaminant is removed. In the disinfection mode as the next stage, ozone gas and water are brought into contact with each other in a gas-liquid mixing part 51 and scattered in the chamber through ozone atomizer nozzles 63. The in the drying mode, a heater 8 and blower fan are turned on so that drying by heating is conducted. A control part 50 controls an ozone generator 40, circulation pump 6, heater 8, and dryer fan on the basis of the weight data about apparatus 4 measured by a weight sensor(s), and thereby the ozone generation, washing, scatter of atomized ozone, and the drying by heating are regulated.

JP 2002-112942 discloses a dishwasher for cleaning used dishes 12 is characterized in that it cleans the used dishes 12 by turning hot air generated by a heat exchanger 36 into a hot blast with a blower 34, and spraying the hot blast to the dishes 12 for drying after purifying water supplied to a washer body 14 by a purifier 24 in which many spherical tourmaline ceramic are stored, turning the purified water into ozonized water by an ozone generator 26, turning the ozonized water into cleaning waterdrops with an ultrasonic wave generator 30, and cleaning the dishes 12 by spraying the cleaning waterdrops to the used dishes 12.

10/583502

Attorney Docket No. 2003P01831 WQU/S
JAP20 REC'D PCT/P10 20 JUN 2006

If no translation of pertinent portions of any foreign language patents or publications mentioned within the "INFORMATION DISCLOSURE STATEMENT BY APPLICANTS" is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the Applicants. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned US patents and US patent application publications are submitted for this application which was filed after June 30, 2003.

Respectfully submitted



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June 20, 2006

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Complete if Known: 107585502

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Filing Date	Concurrently Herewith
First Named Inventor	Caroline Heiligenmann et al
Art Unit	
Examiner Name	
Attorney Docket Number	2003P01931WOUS

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ² *Number ⁴ *Kind Code ⁵ (if known)				
		DE 195 44 392	07/11/1996	Dr. Fritz Gorbahn et al		
		JP 10-14844	01/20/1998	Nakatani Shiro		
		JP 2002-112942	04/16/2002	Cho Renchu et al		
		International Search Report PCT/EP2004/053430				✓

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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